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File: DWPI

Aug 8, 1974

DERWENT-ACC-NO: 1974-63813V

DERWENT-WEEK: 197436

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**TITLE:** Paper-like sheet with coloured pattern - by embossing a molten thermoplastic polymer

**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
TEIJIN LTD	TEIJ

PRIORITY-DATA: 1970JP-0073061 (August 20, 1970)

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**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 74029902 B</u>	August 8, 1974		000	

INT-CL (IPC): D04H 3/14

ABSTRACTED-PUB-NO: JP 74029902B

BASIC-ABSTRACT:

A molten polymer of thermoplastic resin containing a foaming substance is extruded through a die with slits and subjected to quench drawing to form coloured fibrous sheet which has numerous non-continuous cracks in 1 direction  $>=2$  of the sheets are laid one on top of the other in the same crack direction and then spread at right angles to the crack direction to form meshy sheet (I). White or light coloured meshy sheet (II) which is produced in the same way as (I) and has a m.pt (I), is laid over (I) in the same fibre direction. The 2 meshy sheets are stuck together under press at a temp the m.pt of (II) by using embossing plate or roller so that films are formed at the convex parts of the pattern mold and the colour of the lower sheet comes up to the surface. The space between the cracks of the fibrous sheet should be as small as possible and the cracks should pref be uniform in shape, size and distribution. The polymers used are e.g. polystyrene, polyethylene, polypropylene, poly-epsilon-capro-lactam, polyhexamethylene adipamide, polyethylene terephthalate, polyethylene 2,6 naphthalate, polyvinyl chloride, polyvinylidene chloride, polycarbonate, acrylic resin, copolymers and mixtures. The foaming substances are (1) gases which are inert to the molten polyer e.g. as N<sub>2</sub> carbonic acid gas and He (2) volatile org liqs e.g. butane propane and (3) foaming agents such as azodicarboxylic amide and ptolene sulphonyl semicarbazide.

TITLE-TERMS: PAPER SHEET COLOUR PATTERN EMBOS MOLten THERMOPLASTIC POLYMER

DERWENT-CLASS: A32 F04

CPI-CODES: A11-B02A; A11-B06; A11-B07A; A11-B09; A11-C04; A12-W06; F02-C02; F03-A01; F05-A06;

Multipunch Codes: 012 028 03- 034 040 041 046 047 050 055 056 061 062 063 071 074  
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